

ACADEMIC MEDICINE

THE JOURNAL OF THE ASSOCIATION OF AMERICAN MEDICAL COLLEGES

VOLUME CONTENTS, VOL. 73

The abstracts of all major articles are on-line at the AAMC's website
<<http://www.aamc.org/>>.

JANUARY 1998

SPECIAL COLLECTION

Medical School Courses in Professional Skills and Perspectives

- 9 **Preface. Uniting Science and Healing in Tomorrow's Doctors**
by Addeane S. Caellegh
- 10 **The Evolution of Courses in Professional Skills and Perspectives for Medical Students**
by Raymond H. Curry, MD, and Gregory Makoul, PhD
- 14 **Patient, Physician & Society: Northwestern University Medical School**
by Gregory Makoul, PhD, and Raymond H. Curry, MD
- 25 **Principles of Clinical Medicine: Oregon Health Sciences University School of Medicine**
by Scott A. Fields, MD, William L. Toffler, MD, Diane Elliott, MD, and Kathryn Chappelle, MA
- 32 **Doctoring: University of California, Los Angeles**
by Michael S. Wilkes, MD, PhD, Richard Usatine, MD, Stuart Slavin, MD, MEd, and Jerome R. Hoffman, MA, MD
- 41 **Integrated Clinical Experience: University of Nebraska Medical Center**
by David J. Steele, PhD, and Jeffrey L. Susman, MD
- 48 **The Future of Medical School Courses in Professional Skills and Perspectives**
by Gregory Makoul, PhD, Raymond H. Curry, MD, and Dennis H. Novack, MD
- 52 **Skills/Perspectives Courses: Resources and References**

FEATURES

IDEAS FOR MEDICAL EDUCATION

- 54 **Introduction**
by Joseph F. O'Donnell, MD
- 55 **The Moral Education of Medical Students**
by Robert Coles, MD

INFORMATION RESOURCES

- 58 **Introduction—E Pluribus Unum: Informatics Columns Merge**
by Charles P. Friedman, PhD, and Mark E. Frisse, MD, MS, MBA
- 59 **Computers and Productivity: Is It Time for a Reality Check?**
by Mark E. Frisse, MD, MS, MBA

FROM THE PRESIDENT

- 65 **A Helping Hand to Scale a Mountain of Student Debt**
by Jordan J. Cohen, MD

MEDICINE AND THE ARTS

- 66 **Ma, A Memoir [Excerpts]**
by Lynn Freed; commentary by Felice Aull, PhD

NATIONAL POLICY PERSPECTIVES

- 68 **AHCPR: Providing the Foundation for Improving Health Care**
by John M. Eisenberg, MD

ACADEMIC MEDICINE

THE JOURNAL OF THE ASSOCIATION OF AMERICAN MEDICAL COLLEGES

VOLUME CONTENTS, VOL. 73

The abstracts of all major articles are on-line at the AAMC's website
<<http://www.aamc.org/>>.

JANUARY 1998

SPECIAL COLLECTION

Medical School Courses in Professional Skills and Perspectives

- 9 **Preface. Uniting Science and Healing in Tomorrow's Doctors**
by Addeane S. Caelleigh
- 10 **The Evolution of Courses in Professional Skills and Perspectives for Medical Students**
by Raymond H. Curry, MD, and Gregory Makoul, PhD
- 14 **Patient, Physician & Society: Northwestern University Medical School**
by Gregory Makoul, PhD, and Raymond H. Curry, MD
- 25 **Principles of Clinical Medicine: Oregon Health Sciences University School of Medicine**
by Scott A. Fields, MD, William L. Toffler, MD, Diane Elliott, MD, and Kathryn Chappelle, MA
- 32 **Doctoring: University of California, Los Angeles**
by Michael S. Wilkes, MD, PhD, Richard Usatine, MD, Stuart Slavin, MD, MEd, and Jerome R. Hoffman, MA, MD
- 41 **Integrated Clinical Experience: University of Nebraska Medical Center**
by David J. Steele, PhD, and Jeffrey L. Susman, MD
- 48 **The Future of Medical School Courses in Professional Skills and Perspectives**
by Gregory Makoul, PhD, Raymond H. Curry, MD, and Dennis H. Novack, MD
- 52 **Skills/Perspectives Courses: Resources and References**

FEATURES

IDEAS FOR MEDICAL EDUCATION

- 54 **Introduction**
by Joseph F. O'Donnell, MD
- 55 **The Moral Education of Medical Students**
by Robert Coles, MD

INFORMATION RESOURCES

- 58 **Introduction—E Pluribus Unum: Informatics Columns Merge**
by Charles P. Friedman, PhD, and Mark E. Frisse, MD, MS, MBA
- 59 **Computers and Productivity: Is It Time for a Reality Check?**
by Mark E. Frisse, MD, MS, MBA

FROM THE PRESIDENT

- 65 **A Helping Hand to Scale a Mountain of Student Debt**
by Jordan J. Cohen, MD

MEDICINE AND THE ARTS

- 66 **Ma, A Memoir [Excerpts]**
by Lynn Freed; commentary by Felice Aull, PhD

NATIONAL POLICY PERSPECTIVES

- 68 **AHCPR: Providing the Foundation for Improving Health Care**
by John M. Eisenberg, MD

AAMC FOCUS

70

RESEARCH REPORTS

- 71 **Factors Influencing Students' Borrowing That May Affect Their Specialty Choices and Other After-graduation Behaviors**
by Raelynn Cooter, PhD, Theodore M. Bross, EdD, and James B. Erdmann, PhD
- 77 **Institutional Sources of Medical School Faculty and Patterns of Personnel Flow among Medical Schools**
by Mary V. Look, MS
- 84 **Lessons Learned from Six Years of International Administrations of the ECFMG's SP-based Clinical Skills Assessment**
by Amitai Ziv, MD, Miriam Friedman Ben-David, PhD, Alton I. Sutnick, MD, and Nancy E. Gary, MD
- 92 **An Update on Biostatistics Requirements in U.S. Medical Schools**
by Stephen W. Looney, PhD, Christopher S. Grady, MD, and R. Prasaad Steiner, MD, MPH
- 95 **The Use and Compensation of Community Preceptors in U.S. Medical Schools**
by Scott A. Fields, MD, Richard Usatine, MD, Jeffrey A. Stearns, MD, William L. Toffler, MD, and Daniel C. Vinson, MD, MSPH
- 98 **Older Medical Students' Performances at McGill University**
by Denise Feil, MPH, MDCM, Marlene Kristian, and Nelson Mitchell, MDCM
- 101 **Do Women Medical Students Outperform Men in Obstetrics and Gynecology?**
by Paul M. Krueger, DO

LETTERS TO THE EDITOR

- 1 **Shifting Medical Education from the Icebox to the Refrigerator**
by Eta S. Berner, EdD
In reply
by G. Octo Barnett, MD
- 2 **Art Imitates Life?**
by Howard K. Rabinowitz, MD
Successful Computer-based Learning Center
by Howard R. Strasberg, MD, Truls Ostbye, MD, MPH, and David A. Lloyd, MB, BCh, MEd
- 3 **Orienting New Students to Information Technology**
by Cynthia Geppert, MD, John Littlefield, PhD, and Traci Creek

COMMENTARIES

- 4 **Peer Evaluation of Teaching: An Approach Whose Time Has Come**
by Marc S. Nelson, MD, PhD
- 6 **Statistics in the Medical Curriculum**
by Theodore Colton, ScD

RESEARCH BRIEFS

- 103 **Nationwide Perspective on the Use of a Formal Ethics Curriculum during Critical Care Fellowship Training**
by Gregory C. Kane, MD, Frank T. Leone, MD, Joseph Rowane, DO, and James E. Fish, MD
Effect at One School of Clerkship Curriculum and Examination Modifications on Students' USMLE Step 2 Scores
by William G. Wilson, MD

BOOK REVIEWS

- 104 **Get Into Medical School! A Guide for the Perplexed**
by Kenneth Iserson; and
The Definitive Guide to Medical School Admission
by Mark A. Goldstein and Myrna Chandler Goldstein, intro. by Paulette Mehta, MD, revs. by Ken Braslow and
by Hugh M. Hill, MD

FEBRUARY 1998

SPECIAL ARTICLES

- 127 **A Paradigm Shift in Academic Medicine?**
by Mitchell T. Rabkin, MD

-
- 132 **Leadership for Medicine's Promising Future**
by Jordan J. Cohen, MD
- 138 **Responsive Medical Professionalism: Integrating Education, Practice, and Community in a Market-driven Era**
by David M. Frankford, JD, and Thomas R. Konrad, PhD
- 146 **Forum on the Future of Academic Medicine: Session III—Getting from Here to There**
reported by John Iglehart

FEATURES

IDEAS FOR MEDICAL EDUCATION

- 152 **Introduction**
by Joseph F. O'Donnell, MD
- 153 **"A Life in Medicine": Stories from a Dartmouth Medical School Elective**
by Margaret Moore-West, PhD, Randy-Michael Testa, EdD, and Joseph F. O'Donnell, MD

HISTORY OF MEDICAL EDUCATION

- 160 **Introduction**
by Joel D. Howell, MD, PhD
- 160 **Searching for Abraham Flexner**
by Thomas Neville Bonner, PhD

AAMC ANNUAL AWARDS

- 167 **The Annual Awards of the Association of American Medical Colleges**

MEDICINE AND THE ARTS

- 174 **Adam and Eve**
by Rembrandt van Rijn; commentary by Lisa Dittrich

FROM THE PRESIDENT

- 176 **Stocking the Quality Toolbox**
by Jordan J. Cohen, MD

AAMC FOCUS

177

NATIONAL POLICY PERSPECTIVES

- 178 **Public Support for Medical Research—How Deep, How Enduring?**
by Anne Thomas, MS

RESEARCH REPORTS

- 180 **Relationships of Gender and Career Motivation to Medical Faculty Members' Production of Academic Publications**
by Rosalind C. Barnett, PhD, Phyllis Carr, MD, Alicia Dolbashian Boinsner, Arlene Ash, PhD, Robert H. Friedman, MD, Mark A. Moskowitz, MD, and Laura Szalacha, EdM
- 187 **Predicting the Admission into Medical School of African American College Students Who Have Participated in Summer Academic Enrichment Programs**
by Al Hesser, EdD, Louis L. Cregler, MD, and Lloyd Lewis, PhD
- 192 **Comparison of the Levels of Quality of Inpatient Care Delivered by Pediatrics Residents and by Private, Community Pediatricians at One Hospital**
by Robert D. Wells, PhD, Barbara Dahl, MA, and Bjorn Nilson, MD
- 198 **Comparing Fourth-year Medical Students with Faculty in the Teaching of Physical Examination Skills to First-Year Students**
by Steven A. Haist, MD, MS, John F. Wilson, PhD, Nancy L. Brigham, PhD, Sue E. Fosson, MA, and Amy V. Blue, PhD
- 201 **The Value of Noncognitive Factors in Predicting Students' First-year Academic Probation**
by Brian Mavis, PhD, and Kathy Doig, PhD, CLS(NCA)

- 204 **The Reliability of Six Faculty Members in Identifying Important OSCE Items**
by Joseph Valentino, MD, Michael B. Donnelly, PhD, David A. Sloan, MD, Richard W. Schwartz, MD,
and Richard C. Haydon, III, MD

AAMC PAPER

- 211 **Faculty Appointment and Tenure Policies in Medical Schools: A 1997 Status Report**
by Robert F. Jones, PhD, and Jennifer S. Gold, MA

LETTERS TO THE EDITOR

- 115 **Who Should Prepare Physicians for Managed Care Practice?**
by Sidney Weissman, MD, and Julia E. McMurray, MD
In reply
by Gregg S. Meyer, MD, MSc, Allison Potter, and Nancy Gary, MD
- 116 **Preparing Medical Students to "Manage Uncertainty"**
by William H. Hartmann, MD
In reply
by Crayton A. Fargason, Jr., MD, MM, H. Hughes Evans, MD, PhD, Carolyn S. Ashworth, MD, and Stuart A. Capper, DrPH
- 117 **Centers on Aging Should Collaborate**
by John H. Mather, MD
Familiar SPs May Affect Students' Performances on Exams
by Alberto Manetta, MD, Ellen M. Lewis, RN, MSN, and Sue Ahearn, RN
- 118 **Using Practice Guidelines to Teach Residents**
by Keith H. Bachman, MD, and Dennis J. Mazur, MD, PhD
- 119 **Debt and Primary Care Physicians' Career Satisfaction**
by Gang Xu, PhD, and J. Jon Veloski, MS

COMMENTARIES

- 120 **The Importance of Consortia: A Case Study**
by John Zweifler, MD, MPH, and H. John Blossom, MD
- 123 **Why the Triple-threat Approach Threatens the Viability of Academic Medical Centers**
by Karen L. Pellegrin, PhD, MBA, and George W. Arana, MD

BOOK REVIEWS

- 206 **The Managed Care Manual**
ed. by David B. Nash, intro. by Paulette Mehta, MD, revs. by Barry J. Materson, MD, MBA, and Roberta Parillo, MHA, and by
Peter G. Goldschmidt, MD

50 YEARS AGO

- 210 **University Presidents Urge Support for Medical Education**

MARCH 1998

SPECIAL ARTICLES

- 231 **Affirmative Action in Medical Education: A Legal Perspective**
by Lelia B. Helms, PhD, JD, and Charles M. Helms, PhD, MD
- 237 **Extending the Pipeline for Minority Physicians: A Comprehensive Program for Minority Faculty Development**
by Jerry C. Johnson, MD, Ravishankar Jayadevappa, PhD, Lynne Taylor, PhD, Anthony Askew, Beverly Williams, MS, JD,
and Bennett Johnson, MD
- 245 **Sustaining the Development of Primary Care in Academic Medicine**
by Thomas S. Inui, MD, W. T. Williams, Jr., MD, Leslie Goode, Ron J. Anderson, MD,
Karyn N. Bhak, John D. Forsyth, John J. Hutton, MD, Andrew G. Wallace, MD,
and Robert M. Daugherty, Jr., MD, PhD
- 258 **Medical Students' Evaluations of Curriculum Innovations at Ten North American Medical Schools**
by Robert H. Ross, PhD, and Harvey V. Fineberg, MD, PhD
- 266 **Successful Peer Review of Courses: A Case Study**
by Sheldon Horowitz, MD, Selma Van Eyck, PhD, and Mark Albanese, PhD

FEATURES

IDEAS FOR MEDICAL EDUCATION

- 272 **Introduction**
by Joseph F. O'Donnell, MD
- 273 **Service-Learning: Community-Campus Partnerships for Health Professions Education**
by Sarena D. Seifer, MD

INFORMATION RESOURCES

- 278 **Creating the Practice-Learning Environment: Using Information Technology to Support a New Model of Continuing Education**
by Barbara E. Barnes, MD, MS

MEDICINE AND THE ARTS

- 282 **Bless Me, Ultima [Excerpts]**
by Rudolfo Anaya; commentary by Marilyn Chandler McEntyre, PhD

FROM THE PRESIDENT

- 284 **Who Thought Sitting in a Chair Would Be So Hard?**
by Jordan J. Cohen, MD

AAMC FOCUS

285

NATIONAL POLICY PERSPECTIVES

- 286 **Improving Health and Reducing Costs through Information Technology**
by Don E. Detmer, MD

LITERATURE ASSESSMENTS

- 288 **Precollege Enrichment Programs Intended to Increase the Representation of Minorities in Medicine**
by Jan D. Carline, PhD, Davis G. Patterson, MA, Lara A. Davis, MA, and David M. Irby, PhD
- 299 **Enrichment Programs for Undergraduate College Students Intended to Increase the Representation of Minorities in Medicine**
by Jan D. Carline, PhD, Davis G. Patterson MA, and Lara A. Davis, MA

RESEARCH REPORTS

- 313 **Factors Influencing the Career Choices of Physicians Trained at Yale-New Haven Hospital from 1929 through 1994**
by David Krol, MD, Victor Morris, MD, Jennifer Betz, and Ed Cadman, MD
- 318 **Junior Faculty Members' Mentoring Relationships and Their Professional Development in U.S. Medical Schools**
by Anita Palepu, MD, MPH, Robert H. Friedman, MD, Rosalind C. Barnett, PhD, Phyllis L. Carr, MD, Arlene S. Ash, PhD, Laura Szalacha, EdM, and Mark A. Moskowitz, MD
- 324 **Beneficial and Harmful Effects of Augmented Feedback on Physicians' Clinical-teaching Performances**
by Debra K. Litzelman, MA, MD, Georgette A. Stratos, PhD, Deanna J. Marriott, MAS, Emmanuel Lazarides, PhD, and Kelley M. Skeff, MD, PhD
- 333 **Critical Success Factors for Promotion and Tenure in Family Medicine Departments**
by Robert L. Williams, MD, MPH, Beat D. Steiner, MD, MPH, Allen C. Smith, III, PhD, Arthur T. Evans, MD, MPH, Robert B. Kelly, MD, MS, and Louise S. Acheson, MD, MS
- 336 **Attrition Rates of Underrepresented Minority Students at the University of Illinois at Chicago College of Medicine, 1993-1997**
by Ara Tekian, PhD, MHPE
- 339 **What Hysterectomy Patients Want to Know about the Roles of Residents and Medical Students in Their Care**
by H. Nina Kim, Elena Gates, MD, and Bernard Lo, MD
- 342 **Are Medical Students Ready to Provide HIV-prevention Counseling?**
by Robert L. Cook, MD, MPH, Beat D. Steiner, MD, MPH, Allen C. Smith, III, PhD, Arthur T. Evans, MD, MPH, Stephen E. Willis, MD, Emil R. Petrusa, PhD, Donna H. Harward, and Boyd F. Richards, PhD

LETTERS TO THE EDITOR

- 221 **Turf Wars and Curriculum Change**
by John F. McCahan, MD
In reply
by Marc Nelson, MD, PhD, and Karen Johnson, MD
Further Reflections on Dying
by Paul Rousseau, MD
- 222 **Should Private Practitioners Be Paid for Teaching?**
by Madeline Colavito Dodson, PhD
The Need for Spanish-language Training at UCLA
by Chien-Wen Tseng, MD, David Schriger, MD, MPH, Richard Usatine, MD, and Robert Brook, MD, ScD
- 223 **Perceived Prejudice in Medical Education**
by Daniel T. Lackland, DrPH, Stephen A. McLeod-Bryant, MD, and Thaddeus J. Bell, MD
- 224 **The "Computer Initiative" at Case Western**
by G. Caleb Alexander and Alan Weiss, MBA
- 225 **Assisting Residents with Career Decisions**
by Melanie S. Kim, MD, and Frederick H. Lovejoy, Jr., MD

COMMENTARIES

- 226 **Admission of Asian Americans to U.S. Medical Schools**
by Stephen A. George, PhD
- 228 **I Love This Job: Notes of an Internal Medicine Chairman**
by William R. Hazzard, MD

RESEARCH BRIEFS

- 347 **Proficiency of PG-1 Internal Medicine Residents in Performing the Pelvic Examination**
by Robert M. Heiligman, MD, and Kirsten Pinto, FNP
Medical Students' Attitudes at One School toward Accident and Emergency Medicine as a Career
by Brian J. Duggan, MB, BCh, and Brian P. McNicholl, MCh
Classroom Lectures Do Not Influence Family Practice Residents' Learning
by Scott Warner, DO, JD, Donald E. Williams, PhD, Roy Lukman, PhD, Charles C. Powell II, MD, MPH, and Karen Kunding, RN

BOOK REVIEWS

- 349 **The Physician as a Teacher**
by Neal A. Whitman and Thomas L. Schwenk, intro. by Paulette Mehta, MD, revs. by Sergio Piomelli, MD, and Tribhawan S. Vats, MD

APRIL 1998

SPECIAL ARTICLES

- 363 **Fundamentals of Financial Statement Analysis for Academic Physician Managers**
by J. Thomas Danzi, MD, and Marc L. Boom, MD
- 370 **Defining Teaching Hospitals' GME Strategy in Response to New Financial and Market Challenges**
by Janet L. Wray, MBA, and Stephen M. Sadowski, MBA
- 380 **What Should We Do about Eduard Pernkopf's Atlas?**
by Garrett Riggs, PhD, MD
- 387 **Strategies for Improving Teaching Practices: A Comprehensive Approach to Faculty Development**
by LuAnn Wilkerson, EdD, and David M. Irby, PhD
- 397 **Course-based Assessment: Implementing Outcome Assessment in Medical Education**
by Sarah L. Stone, MD, and Donna M. Qualters, MEd

FEATURES

IDEAS FOR MEDICAL EDUCATION

- 402 **Introduction**
by Joseph F. O'Donnell, MD

- 403 **Beyond Curriculum Reform: Confronting Medicine's Hidden Curriculum**
by Frederic W. Hafferty, PhD

INFORMATION RESOURCES

- 408 **"Patient Informatics": Creating New Partnerships in Medical Decision Making**
by Shelley A. Bader, EdD, and Robert M. Braude, PhD

MEDICINE AND THE ARTS

- 412 **Death in Venice [Excerpts]**
by Thomas Mann; commentary by Jonathan M. Metzl, MD

FROM THE PRESIDENT

- 414 **Higher Quality at Lower Cost: Maybe There Is a Way**
by Jordan J. Cohen, MD

AAMC FOCUS

415

NATIONAL POLICY PERSPECTIVES

- 416 **The Shared Responsibility of Medical Students' Debt**
by Paul S. Garrard, MBA

RESEARCH REPORTS

- 418 **The Preparedness of Students to Discuss End-of-life Issues with Patients**
by Mary K. Buss, MD, Eric S. Marx, MTS, and Daniel P. Sulmasy, MD, PhD
- 423 **Does Training Location Influence the Clinical Skills of Medical Students?**
by Beat D. Steiner, MD, Robert L. Cook, MD, MPH, Allen C. Smith, PhD, and Peter Curtis, MD
- 427 **The Effect at One Teaching Hospital of Interns' Workloads on the Satisfaction of Their Patients**
by Charles H. Griffith III, MD, John F. Wilson, PhD, and Eugene C. Rich, MD
- 430 **Relationship between Early Clinical Exposure and First-year Students' Attitudes toward Medical Education**
by Andrea K. Johnson and Craig S. Scott, PhD
- 433 **Influence of Medical School on Medical Students' Opinions about Primary Care Practice**
by Dierdre C. Lynch, RhD, Dale A. Newton, MD, Martha S. Grayson, MD, and Theodore W. Whitley, PhD
- 436 **Attitudes of Physicians Practicing in New Mexico toward Gay Men and Lesbians in the Profession**
by Mary M. Ramos, Cecilia M. Téllez, MD, Toby B. Palley, MD, Bert E. Umland, MD, and Betty J. Skipper, PhD
- 439 **Does Teaching Medical Students in the Office Affect the Way Physicians Complete Patient-encounter Forms?**
by John Michael Heath, MD, and Peter G. Beatty, PhD

LETTERS TO THE EDITOR

- 353 **Disparities of CME Costs among Specialties**
by Daniel R. Nevarre, MD, and Jacquelyn E. Nevarre, RT
- Increases in Pediatrics Residency Applications**
by Carol Carraccio, MD, Robert Englander, MD, and Jeanne Marie Baffa, MD
- 354 **Institutionalized Faculty Development Program**
by Linda Pololi, MD, Dona L. Harris, PhD, Marie Clay, PhD, Ann C. Jobe, MD, MSN, and James A. Hallock, MD
- 355 **Role of Computers at Community Sites**
by Amy V. Blue, PhD, Donald Witzke, PhD, and Giulia Bonaminio, PhD
- Tracking Students' Career Interests following a Generalist Preceptorship**
by Eugene C. Corbett, Jr., MD, and John A. Owen, EdD

COMMENTARIES

- 357 **A Role for Academic Medical Centers in the Era of Managed Care: Immediate, Interactive, Free Information**
by Simeon Pollack, MD
- 360 **Medical Students' Empathic Understanding of Their Patients**
by William T. Branch, Jr., MD, Richard J. Pels, MD, and Janet P. Hafler, EdD

BOOK REVIEWS

- 442 **Helping and Healing: Religious Commitment in Health Care**
intro. by Paulette Mehta, MD; revs. by CeCelia R. Zorn, PhD, RN, and by Martin L. Smith, STD

MAY 1998

SPECIAL ARTICLES

- 453 **On the Commodification of Medicine**
by Daniel Patrick Moynihan
- 460 **Revitalization of the Warren G. Magnuson Clinical Center at the National Institutes of Health**
by John I. Gallin, MD, and Harold Varmus, MD
- 467 **Anonymity and Pseudonymity in Whistleblowing to the U.S. Office of Research Integrity**
by Alan R. Price, PhD
- 473 **Songs of Innocence and Experience: Students' Poems about Their Medical Education**
by Suzanne Poirier, PhD, William R. Ahrens, MD, and Daniel J. Brauner, MD
- 479 **Educating Residents for Managed Care: Report on a Multidisciplinary Conference**
by Mariana G. Hewson, PhD, Andrew J. Fishleder, MD, Alan K. Halperin, MD, Catherine A. Henry, MD, J. Harry Isaacson, MD, Elizabeth Kachur, PhD, and Carol Tresolini, PhD
- 488 **How a Community Teaching Hospital Is Changing to Better Serve Its Community**
by Mark J. Young, MD, Robert J. Laskowski, MD, MBA, and Elliot J. Sussman, MD, MBA
- 494 **Sustaining Curricular Change at Sherbrooke through External, Formative Program Evaluations**
by Jacques E. Des Marchais, MD, MSc, MA, and Georges Bordage, MD, PhD

FEATURES

IDEAS FOR MEDICAL EDUCATION

- 504 **Introduction**
by Joseph F. O'Donnell, MD
- 505 **"Reform without Change": Update, 1998**
by Martha G. Regan-Smith, MD, EdD

HISTORY OF MEDICAL EDUCATION

- 508 **Introduction**
by Joel D. Howell, MD, PhD
- 508 **Old Thoughts, New Ideas: Comparing Traditional Talmudic Education with Today's Medical Education**
by Netta Notzer, PhD, David Zisenwine, PhD, and Haim Sarnat, DMD, MSc

FROM THE PRESIDENT

- 511 **What Are We Going to Do with All That Money?**
by Jordan J. Cohen, MD

MEDICINE AND THE ARTS

- 512 **A Quiet Life [Excerpt]**
by Kenzaburo Oe; commentary by James Dwyer, PhD

NATIONAL POLICY PERSPECTIVES

- 514 **Medicare Provider-Sponsored Organizations: Opportunities and Challenges**
by Nancy-Ann Min DeParle

AAMC FOCUS

516

RESEARCH REPORTS

- 517 **Clarifying the Relationship of Medical Education and Moral Development**
by Donnie J. Self, PhD, Margie Olivarez, and DeWitt C. Baldwin, Jr., MD

- 521 **The Amount of Small-group Case-study Discussion Needed to Improve Moral Reasoning Skills of Medical Students**
by Donnie J. Self, PhD, Margie Olivarez, and DeWitt C. Baldwin, Jr., MD
- 524 **Injury-control Education in Six U.S. Medical Schools**
by Robert N. Butler, MD, Knox H. Todd, MPH, Arthur L. Kellerman, MD, MPH, Carol W. Runyan, MPH, PhD,
Stephan G. Lynn, MD, Michael A. Rodriguez, MD, MPH, Craig Zwerling, MD, PhD, and Frederick P. Rivara, MD, MPH
- 529 **Medical Students' Perceptions of Unethical Conduct at One Medical School**
by William M. Satterwhite III, MD, JD, Robert C. Satterwhite, MA, and Cam E. Enarson, MD, MBA
- 532 **Misrepresentation of Authorship by Applicants to Pediatrics Training Programs**
by Aykut Bilge, MD, PhD, Richard P. Shugarman, MD, and William O. Robertson, MD
- 534 **Poison Pen Letters, Due Process, and Medical Schools' Policies toward Anonymous Correspondence That Disparages Medical School Faculty**
by Frederick Adolf Paola, MD, JD, Tariq K. Malik, MD, MPH, and Robert M. Walker, MD
- 538 **Using Natural Frequencies to Improve Diagnostic Inferences**
by Ulrich Hoffrage, PhD, and Gerd Gigerenzer, PhD

AAMC PAPER

- 549 **On the Importance and Validity of Medical Accreditation Standards**
by Donald G. Kassebaum, MD, Ellen R. Cutler, MPP, and Robert H. Eaglen, PhD

IN PROGRESS

- 565 **Reports of New Approaches in Medical Education**
edited by M. Brownell Anderson

LETTERS TO THE EDITOR

- 445 **Another Way to Enhance SOAP's Usefulness**
by Alan S. Rubin, MD
In Reply
by Kim Charles Meyers, MD, and Harry J. Miller, MD
- 446 **Assessing Teacher's Effectiveness in a Pathology Course**
by James G. Caya, MD, John M. Wurzel, MD, and Toni M. Robinson, MD
- 447 **The Role of Surgery Residents in Educating Medical Students**
by Marc Pelletier, MD, and Paul Belliveau, MD
- 447 **A Standardized Curriculum and Evaluation System for an Ophthalmology Residency**
by Andrew G. Lee, MD, and Douglas D. Koch, MD

COMMENTARIES

- 449 **Keeping the Faith**
by Shefali I. Shah
- 451 **Sustaining the Structure of the Professional Self**
by Eugene C. Corbett, Jr., MD

RESEARCH BRIEFS

- 541 **Emotional and Cognitive Empathy in Medical Schools**
by Joanna Kliszcz, PhD, Marek Hebanowski, MD, and Józef Rembowski, PhD
- 541 **Effect of Inclusion of Cost Information on Student and Faculty Evaluation of a Computer-assisted Problem-based Learning Course**
by Nina Felice Shor, MD, PhD, and Philip Troen, MD

BOOK REVIEWS

- 542 **Health Against Wealth: HMOs and the Breakdown of Medical Trust**
by George Anders
- 542 **The Changing Health Care Marketplace: Private Ventures, Public Interests**
by Walter A. Zelman
intro. by Paulette Mehta, MD; revs. by Grace Powers Monaco, JD, and Mark S. Thomas, JD, MBA, MHA

JUNE 1998

SPECIAL ARTICLES

- 631 **Issues of Medical School Deans**
Challenges to Effective Medical School Leadership: Perspectives of 22 Current and Former Deans
by Michael J. Yedidia, PhD

-
- 640 **Organizational, Financial, and Environmental Factors Influencing Deans' Tenure**
by Rebecca Levin, MPH, Karyn Bhak, MPH, Ernest Moy, MPH, Ernest Valente, PhD, and Paul F. Griner, MD
- 645 **The Dean as Spiritual Leader**
by Clyde Evans, PhD
- 649 **Leading among Leaders: The Dean in Today's Medical School**
by Robert M. Daugherty, Jr., MD, PhD
- 654 **Reflections on the Medical Deanship**
by John E. Chapman, MD

FEATURES

IDEAS FOR MEDICAL EDUCATION

- 657 **Introduction**
by Joseph F. O'Donnell, MD
- 658 **Ideas in Action: The U.S. Schweitzer Fellows Program**
by Lachlan Forrow, MD, and Hon. Mark L. Wolf

INTERNATIONAL MEDICAL EDUCATION

- 662 **Considering Primary Care in Japan**
by Junji Otaki, MD

INFORMATION RESOURCES

- 669 **Requiring Students to Have Computers: Questions for Consideration**
by Robert J. McAuley, PhD

MEDICINE AND THE ARTS

- 674 **Washington Diarist: Smoke [Excerpts]**
by Nadar Mousavizadeh; commentary by Lisa Dittrich

FROM THE PRESIDENT

- 676 **Understanding Why Deans Are Having Such a Good Time**
by Jordan J. Cohen, MD

AAMC FOCUS

677

NATIONAL POLICY PERSPECTIVES

- 678 **Serving the Underserved Is Tomorrow's Challenge**
by Donald L. Weaver, MD

RESEARCH REPORTS

- 680 **What Students Say about Learning and Teaching in Longitudinal Ambulatory Primary Care Clerkships: A Multi-institutional Study**
by Michael D. Prislín, MD, Karen M. Feighny, PhD, Jeffrey A. Stearns, MD, Jan Hood, MD, Louise Arnold, PhD, Stanley Erney, MD, and Linda Johnson, MD
- 688 **Factorial Validation of a Widely Disseminated Educational Framework for Evaluating Clinical Teachers**
by Debra K. Litzelman, MD, MA, Georgette A. Stratos, PhD, Deanna J. Marriott, MAS, and Kelley M. Skeff, MD, PhD
- 696 **A Prospective Randomized Trial of a Residents-as-teachers Training Program**
by Gary L. Dunnington, MD, and Debra DaRosa, PhD
- 701 **A Pilot Study of Faculty Development for Basic Science Teachers**
by Kelley M. Skeff, MD, PhD, Georgette A. Stratos, PhD, Merlynn R. Bergen, PhD, and Donald P. Regula, Jr., MD
- 705 **Evaluation of Primary Care Futures: A Faculty Development Program for Community Health Center Receptors**
by Mark E. Quirk, EdD, Thomas DeWitt, MD, Daniel Lasser, MD, Michael Huppert, MPH, and Elliott Hunniwell
- 708 **Women in Orthopedic Surgery Residencies in the United States**
by J. Sybil Biermann, MD
- 710 **Knowledge of and Attitude toward Patient Confidentiality within Three Family Medicine Teaching Units**
by Ian Shrier, MD, PhD, Stefanie Green, MDCM, Joan Solin, Elaine Duarte-Franco, MD, MPH, Rémi Gilbert, MD, MSc, Gilles Brousseau, MD, and Nazilla Khanlou RN, MSc

AAMC PAPER

- 719 **New Bottles for Vintage Wines: The Changing Management of the Medical School Faculty**
by Paul F. Griner, MD, and David Blumenthal, MD, MPP

LETTERS TO THE EDITOR

- 623 **Do Large Schools Really Supply More Teachers?**
by Christopher Cimino, MD
In reply
by Mary V. Look, MD
Improving the NRMP Board: Why Not Direct Representation?
by Kevin Jon Williams, MD
- 624 **Enduring Strengths of Academic Medical Centers**
by Jill Ridky, PhD, George Johnson, MD, and George F. Sheldon, MD
An Autopsy-reporting System in an Internal Medicine Residency Program
by Major Lannie J. Cation, MD, Patricia J. Hochdoerfer, AAS, and Colonel J. J. Gutierrez-Nunez, MD

COMMENTARIES

- 626 **Evaluating the Curriculum with Standardized Patients**
by Charles L. Bardes, MD
- 628 **The Need for True Informed Consent in Pediatric Teaching Hospitals**
by Beth D. Gamulka, MDCM

BOOK REVIEWS

- 713 **Introduction**
- 714 **The Healing Power of Stories: Creating Yourself Through the Stories of Your Life**
by Daniel Taylor; rev. by John Graham-Pole, MD
- 714 **Organ and Tissue Donation: Ethical, Legal, and Policy Issues**
ed. by Bethany Spielman; rev. by Ray Moseley, PhD
- 715 **Limits: The Role of Law in Bioethical Decision Making**
by Roger B. Dworkin; rev. by Bill Allen, JD, PhD

REPORT FROM THE NRMP

- 716 **Results of the National Resident Matching Program for 1998**

FIFTY YEARS AGO

718

JULY 1998

SPECIAL ARTICLES

- 739 **Training for Rural Family Medicine: A Cooperative Venture of Government, University, and Community in Alberta**
by R. Gordon Chaytors, MD, and G. Richard Spooner, MD
- 743 **Education in Ambulatory Settings: Developing Valid Measures of Educational Outcomes, and Other Research Priorities**
by Georges Bordage, MD, PhD, Jeffrey H. Burack, MD, MPP, BPhil, David M. Irby, PhD, and Frank T. Stritter, PhD
- 751 **Academic Medicine Must Deal with the Clash of Business and Professional Values**
by Herbert M. Swick, MD
- 756 **An Institutionally Funded Program for Educational Research and Development Grants: It Makes Dollars and Sense**
by Mark Albanese, PhD, Sheldon Horowitz, MD, Richard Moss, PhD, and Phillip Farrell, MD, PhD

FEATURES

IDEAS FOR MEDICAL EDUCATION

- 762 **Introduction**
by Joseph F. O'Donnell, MD
- 763 **Nurturing Humanisms through Teaching Palliative Care**
by Susan Block, MD, and J. Andrew Billings, MD

INFORMATION RESOURCES

- 766 **Information Technology and the Clinical Curriculum: Some Predictions and Their Implications for the Class of 2003**
by John G. Faughman, MD, MS, and Robert Elson, MD, MS

MEDICINE AND THE ARTS

- 770 **A Journal of the Plague Year [Excerpt]**
by Daniel Defoe; commentary by Ann Steinecke

FROM THE PRESIDENT

- 772 **People Want Their Doctors Back**
by Jordan J. Cohen, MD

AAMC FOCUS

773

NATIONAL POLICY PERSPECTIVES

- 774 **Federal Support for Clinical Trials**
by Connie Mack

RESEARCH REPORTS

- 776 **The Effect of Supervision of Residents on Quality of Care in Five University-affiliated Emergency Departments**
by Colin M. Sox, MD, Helen R. Burstin, MD, MPH, E. John Orav, PhD, Alasdair Conn, MD, Gary Stenik, MD, Donald W. Rucker, MD, Priscilla Dasse, RN, MPH, and Troyen A. Brennan, MD, JD, MPH
- 783 **Trends among Biomedical Investigators at Top-tier Research Institutions: A Study of the Pew Scholars**
by Renée Williard, PhD, and Edward O'Neil, PhD
- 790 **Predictors of Careers in Academic Medicine for Graduates of a Community-based, Primary-care-Oriented Medical School**
by Ronald J. Markett, PhD, Howard M. Part, MD, and Deborah K. Vetter, MS
- 794 **The Relationship between Medical Students' Academic Achievement and Patterns of Initial Postgraduate Placement**
by Robert F. Ruback, PhD, Donald B. Witzke, PhD, Roy K. Jarecky, EdD, and Barbara Nelson
- 797 **Testing a Causal Model of Community-based Education in the Sudan**
by Mohi Eldin M. A. Magzoub, MD, PhD, and Henk G. Schmidt, PhD
- 803 **Research in Two Large Pediatric Residencies in Argentina**
by Pablo Lapunzina, MD, Marcelo Navia, MD, Pablo Moreno, MD, Virginia Soler, MD, Marcelo Meo, MD, and Verónica Giubergia, MD
- 806 **Evaluation of Students' Learning in an Interdisciplinary Medicine-Surgery Clerkship**
by Amy V. Blue, PhD, Charles H. Griffith III, MD, MSPH, Terry D. Stratton, MA, Lisa T. Degnore, MD, Steven A. Haist, MD, MS, and Richard W. Schwartz, MD
- 809 **Determining the Costs of a Required Third-year Family Medicine Clerkship in an Ambulatory Setting**
by Rick E. Ricer, MD, Andrew T. Filak, MD, and Alan K. David, MD

AAMC PAPER

- 817 **Reforming the Structure and Management of Academic Medical Centers: Case Studies of Ten Institutions**
by Paul F. Griner, MD, and David Blumenthal, MD, MPP

LETTERS TO THE EDITOR

- 725 **Another Professional-skills Course Worth Noting**
by Herbert M. Swick, MD, and Deborah E. Simpson, PhD
- 725 **In reply**
by Gregory Makoul, PhD, and Raymond H. Curry, MD
- 725 **Paying Private Practitioners to Teach**
by Stephen H. Miller, MD, MPH
- 726 **Resistance to Adding Curricula about Domestic Violence**
by Elizabeth A. deLahunta, MD, and Asher Tulskey, MD
- 727 **Coordinating Advanced Professional Education Placement**
by Henry Tulgan, MD, and Elizabeth Kirby, RN, MEd

COMMENTARIES

- 728 **The Turmoil of Academic Physicians: What AMCs Can Do to Ease Their Pain**
by Sudesh Kataria, MD, MHA
- 731 **I Can't Believe You Asked That!**
by John B. Molitor, PhD, and Kimberly R. Barber, MA
- 734 **The Missing Curriculum**
by William A. Ghali, MD, MPH, Linda G. Lesky, MD, and Warren Y. Hershman, MD, MPH
- 737 **Pioneering Paternity Leave in Medicine**
by John Michael Bostwick, MD

BOOK REVIEWS

- 812 **Dying Well: The Prospect of Growth at the End of Life**
by Ira Byock
- 812 **Facing Death: Where Culture, Religion, and Medicine Meet**
ed. by Howard M. Spiro, Mary G. McCrea Curnen, and Lee Palmer Wandel; intro. by Paulette Mehta, MD;
revs. by Donald Eitzman, MD, Regina Bussing, MD, and Dennis Klass, PhD

AUGUST 1998

SPECIAL ARTICLES

- 843 **Health Care Quality: From Data to Accountability**
by Mary Darby
- 854 **Ethical Considerations for Residents**
by Rosamond Rhodes, PhD
- 865 **Teaching Professionalism: Passing the Torch**
by William A. Hensel, MD, and Nancy W. Dickey, MD
- 871 **Cultures in Conflict: A Challenge to Faculty of Academic Health Centers**
by Michael K. Magill, MD, A. Peter Catinella, MD, MPH, Leonard Haas, PhD, and Charles C. Hughes, PhD

FEATURES

MEDICINE AND THE ARTS

- 876 **She Walks These Hills**
by Sharyn McCrumb; commentary by Maryella Sirmon, MD

FROM THE PRESIDENT

- 878 **Protecting Consumers or Caring for Patients?**
by Jordan J. Cohen, MD

AAMC FOCUS

879

NATIONAL POLICY PERSPECTIVES

- 880 **Patent Protection: Crucial Underpinning for Drug Discovery and Development**
by Alan F. Holmer

RESEARCH REPORTS

- 882 **Information about Barriers to Planned Change: A Randomized Controlled Trial Involving Continuing Medical Education Lectures and Commitment to Change**
by Paul E. Mazmanian, PhD, Sandra Ratcliff Daffron, EdD, Robert E. Johnson, PhD, David A. Davis, MD,
and Martin P. Kantrowitz, MD
- 887 **Organizational Environment and Perceptions of Teaching Quality in Seven South Carolina Family Medicine Residency Programs**
by Janice C. Probst, PhD, Elizabeth G. Baxley, MD, Bruce J. Schell, PhD, G. Dean Cleghorn, EdD,
and Stephen P. Bogdewic, PhD
- 894 **A Failure to Reproduce the Intermediate Effect in Clinical Case Recall**
by Margaretha W. J. van de Wiel, PhD, Henk G. Schmidt, PhD, and Henny P. A. Boshuizen, PhD

- 901 **Effect of Medical Record Audit and Feedback on Residents' Compliance with Preventive Health Care Guidelines**
by Eric Holmboe, MD, Richard Scranton, MD, Kevin Sumption, MD, and Richard Hawkins, MD
- 904 **Breast Cancer Screening Knowledge and Skills of Students upon Entering and Exiting a Medical School**
by P. Elizabeth Kann, MD, MPH, and Dorothy S. Lane, MD, MPH
- 907 **The Relationship between Verbal Abuse of Medical Students and Their Confidence in Their Clinical Abilities**
by Michael K. Schuchert
- 910 **Validation of an Objective Structured Clinical Examination in Psychiatry**
by Brian Hodges, MD, MEd, Glenn Regehr, PhD, Mark Hanson, MD, and Nancy McNaughton

LETTERS TO THE EDITOR

- 827 **Audit of Professional Travel at an Academic Medical Center**
by Elizabeth F. Sherertz, MD, and James N. Thompson, MD
- 827 **A Collaborative Internship Program for Premedical Students**
by Dan A. Gerbens, EdD, Mark A. Stid, MD, and Karen L. Foulds, MD
- 828 **Requiring Students to Purchase Computers**
by Mark W. Platt, PhD, William Anderson, PhD, and S. Scott Obenshain, MD
- 828 **Another Kind of Faculty Development**
by Robert I. Hilliard, MD, EdD

COMMENTARIES

- 830 **Promises to Keep**
by James J. Barba, JD
- 833 **Academic Oncology and the Forces of the Marketplace: Crisis Cloaks Opportunity**
by Barry R. Meisenberg, MD
- 836 **Fighting Fire with Fire: Managed-care Approaches to Behavioral Health Care in AHCs**
by James Slaughter, MD, Stephen M. Soltys, MD, MPA, and Thomas Eppright, MD
- 839 **Stark Choices for AHCs**
by Meredith L. Kilgore, CCRN, MSPH, Scott E. Buchalter, MD, Kathleen Kauffman, JD, Mary Nash, RN, MBA, PhD, Stuart A. Capper, DrPH, and John A. Smith, MD, PhD

RESEARCH BRIEFS

- 913 **Physician Parents' Influence over Their Children's Choices of Careers in Generalist Specialties**
by Gang Xu, PhD, and J. Jon Veloski, MS
- 913 **Effect of Remedial Tutorial Help on Students Who Fail In-course Assessments**
by Peter L. Schwartz, MD, and Ernest G. Loten, MB, ChB, PhD

BOOK REVIEWS

- 914 **Culture and the Clinical Encounter: An Intercultural Sensitizer for the Health Professions**
by Rena C. Gropper
- 914 **Culture & Nursing Care: A Pocket Guide**
ed. by Julienne G. Lipson, Suzanne L. Dibble, and Pamela A. Minarek
Introduction
by Paulette Mehta, MD; rev. by Faye A. Gary, RN, MS, EdD, and Belinda S. McClennan, RN

SEPTEMBER 1998

SPECIAL ARTICLES

- 935 **Emerging Lessons of the Interdisciplinary Generalist Curriculum (ICG) Project**
by Steven A. Wartman, MD, PhD, Ardis K. Davis, MSW, Modena E. H. Wilson, MD, Norman B. Kahn, Jr., MD, and Ruth H. Kahn, DNSc
- 943 **Understanding the Costs of Ambulatory Care Training**
by James R. Boex, MBA, Robert Blacklow, MD, Arthur Boll, MBA, Linda Fishman, MBA, Sandy Gamliel, Mohan Garg, ScD, Valerie Gilchrist, MD, Andrew Hogan, PhD, Patricia Meserve, RN, PhD, Steven Pearson, MD, Robert Politzer, ScD, and J. Jon Veloski, MS
- 948 **Moving a Graveyard: How One School Prepared the Way for Continuous Curriculum Renewal**
by Robert T. Watson, MD, Emanuel Suter, MD, Lynn J. Romrell, PhD, Eloise M. Harman, MD, Larry G. Rooks, MD, and Allen H. Neims, MD, PhD

- 956 **Forum on the Future of Academic Medicine: Session IV—The Realities of the Health Care Environment**
reported by John Iglehart

- 962 **The Evolving Duty to Disclose the Presence of Genetic Disease to Relatives**
by Leonard J. Deftos, MD, JD

FEATURES

IDEAS FOR MEDICAL EDUCATION

- 969 **Introduction**
by Joseph F. O'Donnell, MD

- 970 **Developing Curricula in Spirituality and Medicine**
by Christina M. Puchalski, MD, MS, and David B. Larson, MS, MSPH

INFORMATION RESOURCES

- 975 **Managing Information Technology in Academic Medical Centers: A "Multicultural" Experience**
by Charles P. Friedman, PhD, Milton Corn, MD, Arthur J. Krumrey, David R. Perry, and Ronald H. Stevens, PhD

MEDICINE AND THE ARTS

- 980 **Defending Our Lives [Film excerpt]**
produced and directed by Margaret Lazarus and Renner Wunderlich; commentary by Delese Wear, PhD

FROM THE PRESIDENT

- 982 **Mission-based Management: Lessons from the Real World**
by Jordan J. Cohen, MD

AAMC FOCUS

983

NATIONAL POLICY PERSPECTIVES

- 984 **Rethinking Medical Education through Injury Control**
by Ricardo Martinez, MD

RESEARCH REPORTS

- 986 **Minority Students, Affirmative Action, and the Admission Process: A Survey of 15 Medical Schools**
by Ara Tekian, PhD, MHPE
- 993 **Comparing the Psychometric Properties of Checklists and Global Rating Scales for Assessing Performance on an OSCE-format Examination**
by Glenn Regehr, PhD, Helen MacRae, MD, Richard K. Reznick, MD, MEd, and David Szalay, MD
- 998 **Internship Ratings as a Validity Outcome Measure for an Evaluation System to Identify Inadequate Clerkship Performance**
by Bruce Lavin, MD, MPH, and Louis Pangaro, MD
- 1003 **Physicians' and Medical Students' Perspectives on Patients' Quality of Life**
by Tara Tanaka and Carolyn Cook Gotay, PhD
- 1006 **Effect of Undergraduate College Major on Performance in Medical School**
by Stephen R. Smith, MD, MPH
- 1009 **The Costs versus the Perceived Benefits of an LCME Institutional Self-study**
by Deborah E. Simpson, PhD, Dianne L. Golden, Judith M. Rehm, Mahendr S. Kochar, MD, MS, MBA, and Kenneth B. Simons, MD
- 1013 **Do Clinical Breast Examination Skills Improve during Medical School?**
by Karen C. Lee, Dorothy Dunlop, PhD, and Nancy C. Dolan, MD

LETTERS TO THE EDITOR

- 919 **Cost Constraints and GME Program Size**
by Sidney Weissman, MD
- 919 **Locating Conference Paper**
by William E. Seidelman, MD

- 919 **Editor's Reply**
920 **AHC-Community Partnerships for Interdisciplinary Education**
by Byron J. Crouse, MD, Christine Mueller, PhD, RN, and Donald L. Uden, PharmD
921 **The Bonsai Master**
by Richard B. Weinberg, MD

COMMENTARIES

- 922 **The "John McCain Rap": A Metaphor for Domestic Violence**
by Neal Whitman, EdD
925 **Achieving Better Institutional Self-study**
by Donald G. Kassebaum, MD
928 **Home Care—The Time to Teach about It Is Now**
by R. Knight Steel, MD
931 **Where Is the "Gene" in the Generalist Literature?**
by William G. Wilson, MD
933 **Encourage Qualitative Research to Improve Students' Clinical Skills!**
by Genevieve Noone Parsons, MD, Sarah B. Kinsman, MD, and Peter A. Ubel, MD

RESEARCH BRIEF

- 1020 **Medical Students' Attitudes toward, Knowledge of, and Experience with Complementary Medicine Therapies**
by Susan Derr, MSN, MPH, Ulfat Shaikh, MD, MPH, Aaron Rosen, MPH, and Patricia Guadagnino

BOOK REVIEWS

- 1021 **The Moral Intelligence of Children**
by Robert Coles
1021 **The Measure of Our Days**
by Jerome Groopman
1025 **Clinical Medicine 2.0 (CD-ROM)**
by Charles D. Forbes and William F. Jackson; intro. by Paulette Mehta, MD; revs. by James M. Perrin, MD, Jeffrey M. Lipton, MD, PhD, Andrew M. Yeager, MD, Jude V. Espinoza, MD, and Jawahar L. Mehta, MD, PhD

SEPTEMBER 1998 SUPPLEMENT

Issues and Strategies for Reform in Medicine: Lessons from Eight Medical Schools

Editors: Stuart P. Mennin, PhD, and Summers Kalishman PhD

PREFACE

- Sv **Medical Education: Can We Do Better?**
by Annie Lea Shuster and Richard C. Reynolds, MD

INTRODUCTION

- S1 **A Story of Change**
by Sharon K. Krackov, EdD, and Stewart P. Mennin, PhD

CHAPTERS

- S4 **1—The Process of Change: Stories of the Journey**
by Marlene A. Lindberg, PhD
S11 **2—Leadership and Governance**
by Arthur Kaufman, MD
S16 **3—Communication and the Process of Educational Change**
by Elaine F. Dannefer, PhD, Mary Anne Johnston, PhD, and Sharon K. Krackov, EdD
S24 **4—Integrating the Teaching of Basic Sciences, Clinical Sciences, and Biopsychosocial Issues**
by Hilary Schmidt, PhD
S32 **5—Faculty Developments: A Field of Dreams**
by Robert F. Rubeck, PhD, and Donald B. Witzke, PhD

-
- S38 **6—Instructional Methods**
by John H. Shatzer, PhD
- S46 **7—Student Assessment**
by Stewart P. Mennin, PhD, and Summers Kalishman, PhD
- S55 **8—Evaluating Change in Medical School Curricula: How Did We Know Where We Were Going?**
by Martha S. Gerrity, MD, PhD, and John Mahaffy, PhD

SUMMARY

- S60 **Reflections on Relevance, Resistance, and Reform in Medical Education**
by Stewart P. Mennin, PhD, and Sharon K. Krackow, EdD

APPENDICES

- S67 **Appendix A**
Descriptions of Revised Curricula
- S77 **Appendix B**
Publications and Presentations
- S89 **Appendix C**
List of Contributors

OCTOBER 1998

SPECIAL ARTICLES

- 1039 **The Development of Substance-abuse Curricular Content by Five North Carolina Schools**
by Wei Li Fang, PhD, Steven N. Applegate, MEd, Roy M. Stein, MD, and Jacob A. Lohr, MD
- 1044 **Minorities in Medical School and National Medical Fellowships, Inc.: 50 Years and Counting**
by Leon Johnson, Jr., DEd
- 1052 **Article Commentary. Medical Student Diversity—Elective or Required?**
by Gerard N. Burrow, MD
- 1054 **Article Commentary. Better Admission Criteria**
by Mark D. Smith, MD, MBA, and Crystal Hayling
- 1056 **Teaching Residents to Care for Culturally Diverse Populations**
by John Zweifler, MD, MPH, and Anna Marie Gonzalez, MD
- 1062 **A Resource-allocation Model to Enhance Productivity of Academic Physicians**
by Jack Blalock, MBA, and Philip A. Mackowiak, MD

FEATURES

IDEAS FOR MEDICAL EDUCATION

- 1067 **Introduction**
by Joseph F. O'Donnell, MD
- 1068 **The Use of "Vertical Integration Groups" to Help Define and Update Course/Clerkship Content**
by David W. Nierenberg, MD

INFORMATION RESOURCES

- 1072 **Instructional Intranets in Graduate Medical Education**
by Susan Zucker, PhD, James A. White, PhD, Peter J. Fabri, MD, and Laleh S. Khonsari, PhD

INTERNATIONAL MEDICAL EDUCATION

- 1076 **Changes in Medical Education in Spain**
by José Manuel Gómez, MD, and Ramon Pujol, MD

FROM THE PRESIDENT

- 1081 **Archival Research Versus Privacy Rights: Finding the Right Balance**
by Jordan J. Cohen, MD

MEDICINE AND THE ARTS

- 1082 **North Enough: AIDS and Other Clear-Cuts [Excerpt]**
by Jan Zita Grover; commentary by Anne Hunsaker Hawkins

NATIONAL POLICY PERSPECTIVES

- 1084 **Race and Health in America**
by Judith A. Winston, JD

AAMC FOCUS

1086

RESEARCH REPORTS

- 1087 **Mixed Messages about Primary Care in the Culture of U.S. Medical Schools**
by Susan D. Block, MD, Nancy Clark-Chiarelli, EdD, and Judith D. Singer, PhD
- 1095 **Evaluating the Predictive Validity of MCAT Scores across Diverse Applicant Groups**
by Judith A. Koenig, Stephen G. Sireci, PhD, and Andrew Wiley
- 1107 **The Effects of a Managed Care Educational Program on Faculty and Trainee Knowledge, Attitudes, and Behavioral Intentions**
by Gerald S. Lazarus, MD, Garrett Foulke, MD, Robert A. Bell, PhD, Allan D. Siefkin, MD, Keenan Keller, JD, and Richard L. Kravitz, MD, MSPH
- 1114 **A Survey of Changes in the Proportions of Ambulatory Training in Internal Medicine Clerkships and Residencies from 1986-87 to 1996-97**
by Norman G. Levinsky, MD
- 1116 **Initial Experience with a Multi-station Objective Structured Teaching Skills Evaluation**
by Michael D. Prislun, MD, Camille Fitzpatrick, NP, MSN, Mark Giglio, MD, Désirée Lie, MD, and Stephen Radecki, PhD
- 1119 **Can Professionalism Be Measured? The Development of a Scale for Use in the Medical Environment**
by Erin L. Arnold, MD, Linda L. Blank, Kathryn E. H. Race, and Nancy Cipparrone

LETTERS TO THE EDITOR

- 1027 **Anonymous Poison Pen Letters vs Allegations of Scientific Misconduct**
by Alan R. Price, PhD
In reply
by Frederick Adolf Paola, MD, JD, Tariq K. Malik, MD, MPH, and Robert M. Walker, MD
- 1028 **EBM and Biostatistics Courses**
by Ronald J. Markert, PhD
In reply
by Stephen W. Looney, PhD, Christopher S. Grady, MD, and R. Prasaad Steiner, MD, MPH, PhD
- 1029 **Postgraduate Specialization of Argentinian Medical Students in the 1960s and 1990s**
by Alberto Enrique D'Ottavio, PhD, and Juan Carlos Miguel, MD
- 1030 **Faculty Expectations of Students in Small-group Formats**
by Amy V. Blue, PhD, Carol L. Elam, EdD, Sue Fosson, MA, and Giulia Bonaminio, PhD

COMMENTARIES

- 1031 **William Carlos Williams and the Company Doctor**
by Loretta M. Kopelman, PhD, and Kenneth A. De Ville, PhD, JD
- 1033 **Under New Medicare Regulations, Can We Still Educate for Uncertainty?**
by Mark S. Paller, MD, MS, and Richard A. Culbertson, PhD
- 1036 **Medical Cost Containment: We Can Get There from Here**
by Norman C. Reynolds, Jr., MD, Karen E. Reynolds, and Arthur Reynolds, MHA, JD

RESEARCH BRIEF

- 1122 **Federal Research Funding at U.S. Universities and Colleges and the Production of Underrepresented-minority Physicians**
by Simone M. Cummings, MHA

OCTOBER 1998, SUPPLEMENT

**Research in Medical Education
Proceedings of the Thirty-seventh Annual Conference
October 30–November 4, 1998**

Co-chairs: Karen Mann, PhD, and Cyril M. Grum, MD

Editor: M. Brownell Anderson

Foreword by Karen Mann, PhD, and Cyril M. Grum, MD

REVIEW PAPER

Moderator: John J. Norcini, PhD

- S1 Exploring the Etiology of Content Specificity: Factors Influencing Analogic Transfer and Problem Solving**
Kevin W. Eva, Alan J. Neville, and Geoffrey R. Norman

PAPERS

RESIDENT EDUCATION UNDER THE MICROSCOPE

Moderator: Robert Wigton, MD

- S6 Change in GME Programs among Twelve Major Specialties: 1988–1996**
Judith A. Cooksey and Cathleen P. Harman
- S10 The Teaching of Cardiac Auscultation during Internal Medicine and Family Medicine Training—A Nationwide Comparison**
Salvatore Mangione

ALTERNATIVE APPROACHES TO PROGRAM EVALUATION

Moderator: Linda Distlehorst, PhD

- S13 Multidisciplinary Education Outcomes of the W. K. Kellogg Community Partnerships and Health Professions Education Initiative**
Dona L. Harris, Sandra M. Starnaman, Rebecca C. Henry, and Carole J. Bland
- S16 School-to-school Differences in Step 1 Performance as a Function of Curriculum Type and Use of Step 1 in Promotion/Graduation Requirements**
Douglas R. Ripkey, David B. Swanson, and Susan M. Case

THINKING ABOUT STUDENT THINKING

Moderator: Glenn Regehr, PhD

- S19 Medical Student Errors in Making a Diagnosis**
Michael H. Friedman, Karen J. Connell, Allan J. Olthoff, James M. Sinacore, and Georges Bordage
- S22 Motivational and Cognitive Processes Influencing Tutorial Groups**
Diana H. J. M. Dolmans, Ineke H. A. P. Wolfhagen, and Cees P. M. van der Vleuten
- S25 Medical Students' Learning Processes: A Comparative and Longitudinal Study**
Nu Viet Vu, Cees P. M. van der Vleuten, and Guy Lacombe

CULTURE, COMMUNICATION, AND THE INFORMAL CURRICULUM

Moderator: Gail Morrison, MD

- S28 In Search of the Informal Curriculum: When and Where Professional Values are Taught**
David T. Stern
- S31 Improving Cultural Awareness and Sensitivity Training in Medical School**
Lynne S. Robins, Joseph C. Fantone, Julica Hermann, Gwen L. Alexander, and Andrew J. Zweifler
- S35 Medical Student and Resident Perspectives on Delivering Bad News**
Gregory Makoul

PREDICTING PERFORMANCE AND SATISFACTION: BEYOND THE CRYSTAL BALL

Moderator: Norma Wagoner, PhD

- S38 Cognitive Factors, Attrition Rates, and Underrepresented Minority Students: The Problem of Predicting Future Performance**
Ara Tekian

-
- S41 Medical School Admission Committee Members' Evaluations of and Impressions from Recommendation Letters**
Mitzi Johnson, Carol Elam, Janine Edwards, Douglas Taylor, Cynthia Heldberg, Robert Hinkley, and Roger Comeau
- S44 Predictors of Intellectual Satisfaction in Medical School: Sociodemographic, Cognitive, and Personality Factors**
Steven A. Lieberman, Christine A. Stroup-Benham, and Jennifer L. Peel

TESTING THE TEST

Moderator: Sally Cavanaugh, PhD

- S47 Some Methods for Detecting and Understanding Test Speededness on Timed Multiple-choice Tests**
Amrita Hadadi and Richard M. Luecht
- S51 A Comparative Study of a Comprehensive Basic Sciences Test Using Paper-and-pencil and Computerized Formats**
Richard M. Luecht, Amrita Hadadi, David B. Swanson, and Susan M. Case

MEDICAL STUDENTS AND HOUSESTAFF: PARTNERS IN LEARNING

Moderator: Deborah Litzelman, MD

- S54 Eliciting and Displaying Diagnostic Reasoning during Educational Rounds in Internal Medicine: Who Learns from Whom?**
Mathieu R. Nendaz, Alain F. Junod, Nu Viet Vu, and Georges Bordage
- S57 Do Students Who Work with Better Housestaff in their Medicine Clerkships Learn More?**
Charles H. Griffith, III, John F. Wilson, Steven A. Haist, and Mary Ramsbottom-Lucier

UNCOVERING NEW APPROACHES WITH SOFTWARE APPLICATIONS

Moderator: Fred Wolf, PhD

- S60 Components of Learning in Ambulatory Settings: A Qualitative Analysis**
Bruce L. Young, Robin P. Graham, Judith Shipengrover, and Paul A. James
- S64 Use of a Computer-based Internal Medicine Resource by Medical Students and Housestaff**
Jennifer Cohen, Judy A. Shea, and Lisa Bellini

TEACHING THE TEACHERS: IS IT EFFECTIVE?

Moderator: Elizabeth Armstrong, PhD

- S67 Arrows in the Quiver: Evaluation of a Workshop on Ambulatory Teaching**
LuAnn Wilkerson and Richard T. Sarkin
- S70 Career Satisfaction among Family-physician-Educators**
Linda N. Meurer, Douglas J. Bower, Virginia A. Rediske, Deborah E. Simpson, Steven L. Lawrence, Michael S. Wolkowicz, and Ann C. Beecher
- S72 Students' Global Assessments of Clinical Teachers: A Reliable and Valid Measure of Teaching Effectiveness**
Deanna J. Marriott and Debra K. Litzelman

THE CONTINUED STUDY OF STANDARDIZED PATIENTS IN ASSESSMENT

Moderator: Emil Petrusa, PhD

- S75 Do Discrepancies in Standardized Patients' Checklist Recording Affect Case and Examination Mastery-level Decisions?**
André F. De Champlain, Mary K. Macmillan, Melissa J. Margolis, Ann M. King, and Daniel J. Klass
- S78 Assessing Decision Consistency with a Sequentially Administered Large-scale Standardized Patient Examination: A Monte Carlo Investigation**
André F. De Champlain, Brian E. Clauser, Melissa J. Margolis, Daniel J. Klass, and Ronald J. Nungester
- S81 The Effect of Using Multiple Standardized Patients on the Inter-case Reliability of a Large-scale Standardized-patient Examination Administered over an Extended Testing Period**
Jerry A. Colliver, Mark H. Swartz, Randall S. Robbs, Marianne Lofquist, Devra Cohen, and Steven J. Verhulst

SEX AND MORAL REASONING

Moderator: Louise Arnold, PhD

- S84 The Effect of Patient-education Tools on Physicians' Discussions with Young Adolescents about Sex**
Bradley O. Boekeloo, Lisa A. Schamus, and Kathleen S. O'Connor
- S88 Gender Differences in Clinical Evaluation: Narrowing the Gap with Women's Health Clinical Skills Workshops**
Deborah S. Kwolek, Amy V. Blue, Charles H. Griffith, III, John F. Wilson, and Steven A. Haist
- S91 Does Medical Education Inhibit the Development of Moral Reasoning in Medical Students? A Cross-sectional Study**
Donnie J. Self and DeWitt C. Baldwin, Jr.

HIGH-STAKES EXAMINATIONS: WHAT DO WE KNOW ABOUT MEASUREMENT?

Moderator: David Swanson, PhD

- S94 Using Standardized Patients to Assess the Interpersonal Skills of Physicians**
John R. Boulet, Miriam Friedman Ben-David, Amitai Ziv, William P. Burdick, Michael Curtis, Steve Peitzman, and Nancy E. Gary
- S97 Process-rating Forms versus Task-specific Checklists in an OSCE for Medical Licensure**
Richard K. Reznick, Glenn Regehr, Gilbert Yee, Arthur Rothman, David Blackmore, and Dale Dauphinée
- S100 The Impact of an Alternative Approach to Construct Definition upon the Reliability and Utility of Diagnostic Performance Measures**
Frank J. Papa, Peter Harasym, Randall Schumacker, David G. Aldrich, and Robert C. Stone

COGNITION, CONFIDENCE, AND CLINICAL SKILLS

Moderator: Gordon Page, EdD

- S103 Clinical Confidence and Skills of Medical Students: Use of an OSCE to Enhance Confidence in Clinical Skills**
Steven R. Ytterberg, Ilene B. Harris, Sharon S. Allen, David C. Anderson, Philip M. Kofron, John H. Kvasnicka, James P. McCord, and James H. Moller
- S106 Increasing Medical Students' Self-perceived Skill and Comfort in Examining Persons with Severe Developmental Disabilities: The Use of Standardized Patients Who are Nonverbal Due to Cerebral Palsy**
Gary E. Eddey, Kenneth L. Robey, and Julia A. McConnell
- S109 The Importance of Early Problem Representation during Case Presentations**
Rowland W. Chang, Georges Bordage, and Karen J. Connell

SETTING STANDARDS FOR PERFORMANCE ASSESSMENT

Moderator: Dale Dauphinée, MD

- S112 Defining Standards of Competent Performance on an OSCE**
Michael D. Cusimano, Arthur Rothman, and Jay Keystone
- S114 Setting Examination-level Standards for a Performance-based Assessment of Physician's Clinical Skills**
Melissa J. Margolis, André F. De Champlain, and Daniel J. Klass
- S117 A Comparison of Two Approaches for Modeling Expert Judgment in Scoring a Performance Assessment of Physician's Patient-management Skills**
Brian E. Clauser, Linette P. Ross, Van Y. Fan, and Stephen G. Clyman

1997 INVITED ADDRESS

- S120 Preserving Quality as the Site of Medical Education Shifts**
Jerome P. Kassirer

NOVEMBER 1998

SPECIAL ARTICLES

- 1133 Educating Future Physicians for Ontario**
by Victor R. Neufeld, MD, Robert F. Maudsley, MD, Richard J. Pickering, MD, Jeffrey M. Turnbull, MD, W. Wayne Weston, MD, Merrilee G. Brown, MD, and Janice C. Simpson, PhD
- 1149 On the Culture of Student Abuse in Medical School**
by Donald G. Kassebaum, MD, and Ellen R. Cutler, MPP
- 1159 Training Future Leaders of Academic Medicine: Internal Programs at Three Academic Health Centers**
by Page S. Morahan, PhD, Dwight Kasperbauer, Sharon A. McDade, EdD, Carol A. Aschenbrener, MD, Pamela K. Triolo, PhD, RN, Patricia L. Monteleone, MD, MBA, MHA, Michael Counte, PhD, and Michael J. Meyer
- 1169 The Gateway Program: Ten-year Lessons about Outcomes and Admission Measures**
by Elisabeth Iler, JD, and Morton Slater, PhD

FEATURES

IDEAS FOR MEDICAL EDUCATION

- 1172 Introduction**
by Joseph F. O'Donnell, MD

- 1173 **How Medical Students Can Bring about Curricular Change**
by K. Meredith Atkins, MD, Amy E. Roberts, and Nan Cochran, MD

FROM THE PRESIDENT

- 1177 **Medical Schools and Teaching Hospitals—Serving the Needs of America's Communities**
by Jordan J. Cohen, MD

MEDICINE AND THE ARTS

- 1178 **Flower Leaning from a Vase**
by Susan Spady; commentary by Marilyn Chandler McEntyre, PhD

NATIONAL POLICY PERSPECTIVES

- 1180 **Accrediting Animal Research Programs: Where Science and Responsible Animal Care Connect**
by John G. Miller, DVM

AAMC FOCUS

1182

RESEARCH REPORTS

- 1183 **Misrepresentation of Research Citations among Medical School Faculty Applicants**
by Leon C. Goe, MHS, Adriana M. Herrera, and William R. Mower, MD, PhD
- 1187 **Punishment for Unethical Behavior in the Conduct of Research**
by Neil S. Wenger, MD, MPH, Stanley G. Korenman, MD, Richard Berk, PhD, and Honghu Liu, PhD
- 1195 **Unethical and Unprofessional Conduct Observed by Residents during Their First Year of Training**
by DeWitt C. Baldwin, Jr., MD, Steven R. Daugherty, PhD, and Beverley D. Rowley, PhD
- 1201 **Using Videotaped Benchmarks to Improve the Self-assessment Ability of Family Practice Residents**
by Dawn Martin, MSW, Glenn Regehr, PhD, Brian Hodges, MD, MEd, and Nancy McNaughton
- 1207 **Associations between Primary Care-oriented Practices in Medical School Admission and the Practice Intentions of Matriculants**
by William Thomas Basco, Jr., MD, Sharon Bell Buchbinder, RN, PhD, Anne Kaszuba Duggan, ScD, and Modena Hoover Wilson, MD, MPH
- 1211 **Comparing Achievement on the Medical Council of Canada Qualifying Examination Part I of Students in Conventional and Problem-based Learning Curricula**
by David M. Kaufman, EdD, and Karen V. Mann, PhD

LETTERS TO THE EDITOR

- 1123 **Attrition of Minority Students**
by Joseph J. Giliberti, MD
In reply
by Ara Tekian, PhD, MHPE
- 1124 **Innovations in Faculty Development**
by Stephen P. Bogdewic, PhD
In reply
by LuAnn Wilkerson, EdD, and David M. Irby, PhD
- 1125 **Performances of Women and Men in Ob-Gyn Clerkships**
by Mike Dubik, MD
In reply
by Paul M. Krueger, DO
- 1125 **Students' Perceptions of Unethical Conduct**
by Donna L. Parker, MD
- 1126 **Unexpected Pathologic Findings during Skills Training or Assessment**
by Peter M. Boendermaker, MD, Jan Pols, MD, and Albert J. J. A. Scherpier, MD, PhD
- 1126 **The Need for Comprehensive Pharmacotherapy Curricula**
by Bobbi B. Adcock, MD, Debbie C. Byrd, PharmD, and Marcia R. O'Neal, PhD

COMMENTARIES

- 1128 **Time to Teach about Ethical Issues Encountered in Managed Care**
by Joseph A. Carrese, MD, MPH, and Scott M. Wright, MD

- 1130 **Reverse Gender Bias—A Caution to Women Faculty**
by Joyce A. Tinsley, MD

RESEARCH BRIEFS

- 1214 **Knowledge Acquisition in a One-month Infectious Diseases Rotation**
by John S. Czachor, MD, H. Bradford Hawley, MD, Ronald J. Markert, PhD, and Barbara L. Schuster, MD
- 1214 **Women's Health Programs in Academic Health Centers**
by Jennifer Hays, PhD, and Jill A. Anderson

DECEMBER 1998

SPECIAL ARTICLES

- 1229 **Education to Defend Professional Values in the New Corporate Age**
by Arnold S. Relman, MD
- 1234 **The Philosophical Limits of Evidence-based Medicine**
by Mark R. Tonelli, MD, MA
- 1241 **Forum on the Future of Academic Medicine: Session V—Implications of Basic and Applied Research for AMCs**
reported by John Iglehart
- 1249 **The Importance of Expanding Current Training in the Responsible Conduct of Research**
by Anna C. Mastroianni, JD, MPH, and Jeffrey P. Kahn, PhD, MPH
- 1255 **A Compendium of Higher Education Opportunities in Health Professions Education**
by Michael D. Cusimano, MD, MHPE, PhD, and Mary Ann David

FEATURES

IDEAS FOR MEDICAL EDUCATION

- 1260 **Introduction**
by Joseph F. O'Donnell, MD
- 1261 **Caring for the Chronically Ill: A Vital Subject for Medical Education**
by Andrew J. Cohen, MD

INFORMATION RESOURCES

- 1267 **Using Modern Information Technology to Profile Faculty Activities**
by Jordan Lombardo, MS, Christine White, and Richard Wojcik, MS

INTERNATIONAL MEDICAL EDUCATION

- 1274 **Graduate Medical Education at Chubu Hospital, Okinawa, Japan**
by David C. Hefelfinger, MD

FROM THE PRESIDENT

- 1277 **Why Doctors Don't Always Go Where They're Needed**
by Jordan J. Cohen, MD

MEDICINE AND THE ARTS

- 1278 **The Death of a Beekeeper**
by Lars Gustafsson; commentary by William Billiter, MFA

NATIONAL POLICY PERSPECTIVES

- 1280 **Educating Physicians for the 21st Century**
by Douglas L. Wood, DO, PhD

AAMC FOCUS

1182

RESEARCH REPORTS

- 1283 **Board Certification: Association with Physicians' Demographics and Performances during Medical School and Residency**
by Gang Xu, PhD, J. Jon Veloski, MS, and Mohammadreza Hojat, PhD
- 1290 **Changes in Services for Students with Learning Disabilities in U.S. and Canadian Medical Schools, 1991 to 1997**
by Harris C. Faigel, MD
- 1294 **A Generalizability Study of a New Standardized Rating Form Used to Evaluate Students' Clinical Clerkship Performances**
by Clarence D. Kreiter, PhD, Kristi Ferguson, PhD, Won-Chan Lee, MS, Robert L. Brennan, PhD, and Peter Densen, MD
- 1299 **Development and Psychometric Properties of the Washington Primary Care Interest Inventory**
by Douglas M. Brock, PhD, Douglas C. Schaad, PhD, Jie Guo, PhD, D. Daniel Hunt, MD, Werner Samson, MD, and David M. Irby, PhD
- 1305 **Symptoms of Depression in Residents: A South Carolina Family Practice Research Consortium Study**
by Barry L. Hainer, MD, and Yuko Palesch, PhD

LETTERS TO THE EDITOR

- 1215 **More on Teaching EBM**
by Geoff Norman, PhD
More on Teaching EBM
by Scott H. Barnett, MD, Alex Stagnaro-Green, MD, and the EBM Working Group
- 1216 **In reply to Norman and Barnett**
by William A. Ghali, MD, MPH, Linda G. Lesky, MD, and Warren Y. Hershman, MD, MPH
- 1217 **Integrating Computers into Medical Education**
by Stephen Sandroni, MD
In reply
by Robert J. McAuley, PhD
Virtual Anatomy: New Opportunities for Education Research—
by Amit Garg
- 1218 **Eliminating Redundancies in Med-Peds Training**
by Mrugeshkumar K. Shah, Marc J. Kahn, MD, and William C. Steinmann, MD, MSc
- 1219 **Another Year's Experience with IMG Applicants to a Medical Residency**
by Henry Tulgan, MD, Margaret Butorac, and Jack D. McCue, MD
- 1219 **Training Students for High-risk Needle Procedures**
by Pamela M. Tereskerz, JD, PhD, Janine Jagger, MPH, PhD, and Richard D. Pearson, MD

COMMENTARIES

- 1221 **Evidence-based Medicine: Not as Simple as It Seems**
by D. Kay Taylor, PhD, and James Buterakos, MSA
- 1223 **Meritocracy in Graduate Medical Education? Some Suggestions for Creating a Report Card**
by Donald J. Iverson, MD
- 1226 **Truth and Consequences**
by Gerald S. Foster, MD

RESEARCH BRIEFS

- 1311 **Teaching Students during an Emergency Walk-in Clinic Rotation Does Not Delay Care**
by Kurt R. Denninghoff, MD, and P. Kevin Moye, MD